

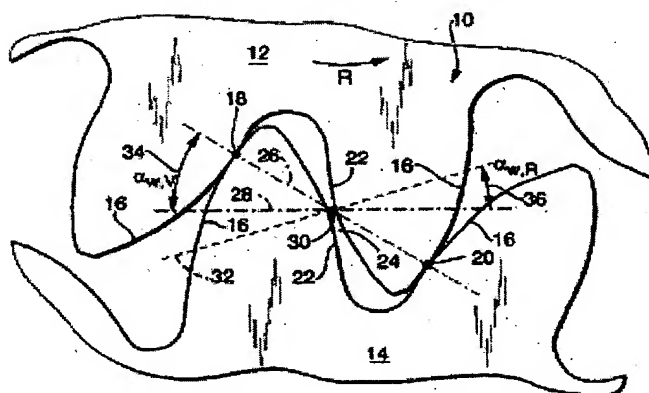
## Mechanical hydraulic pump has meshing gear wheels with asymmetric gear tooth edges to reduce pulsation in the output pressure

**Patent number:** DE10003735  
**Publication date:** 2000-11-16  
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**Classification:**  
- international: F04C2/08; F04C2/00; (IPC1-7): F04C2/14; F03C2/08; F04C2/10  
- european: F04C2/08B2  
**Application number:** DE20001003735 20000128  
**Priority number(s):** DE20001003735 20000128

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### Abstract of DE10003735

A mechanical hydraulic pump has two meshing gear wheels (12, 14) with asymmetric front and rear tooth flanges. The two gear wheels touch with their respective front flanges (16) while the rear flanges (22) have virtual touching points (20). This reduces the pulsations in the output pressure. The effective angle between the line joining the grip points (19, 20) of the front flanges and the tangent (28) through the rolling points of the pumping action is greater than the corresponding angle for the virtual grip points for the trailing edges.



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